

IN THE CLAIMS

1-21. (Cancelled)

22. (Currently Amended) An intermittent aerosol dispensing device for application of a product to skin of a human being, comprising

a cylinder adapted to be secured atop an aerosol can, said cylinder communicating with said product, pressurized in said can, via a port;

a piston forming a nozzle and adapted to reciprocate with respect to said cylinder; and

a needle valve adapted to intermittently engage against an inner surface of said piston, said piston and needle valve defining therebetween

a pressure chamber adapted to receive pressurized product, via said port, from said aerosol can, said pressurized product moving said piston and needle valve away from said port;

first coil spring, once differential pressure between said port and said pressure chamber has decreased, to urge said needle valve away from said piston, thereby venting said pressure chamber via said nozzle to ambient air for a predetermined injection time interval, and

second coil spring, once differential pressure between said pressure chamber and ambient air has decreased, to urge said piston against said needle valve for a predetermined stop time interval;

wherein, by appropriate selection of a spring constant of said second coil spring,

a ratio of an injection time to a stop time is set to 0.1 to 5.0, when a valve is opened, in order to obtain a

sufficient yet not excessive cooling and/or massage effect
on the skin, and

wherein the product contains 20 to 70 % by weight of a
liquefied gas in an aerosol composition.

23 ~~(Cancelled) The intermittent aerosol
dispensing device of claim 22, wherein the product contains
20 to 70 % by weight of a liquefied gas in an aerosol
composition.~~

24. (Previously Presented) An intermittent
aerosol dispensing device for application of a product to
skin of a human being, comprising

 a cylinder adapted to be secured atop an aerosol can,
said cylinder communicating with said product, pressurized
in said can, via a port;

 a piston forming a nozzle and adapted to reciprocate
with respect to said cylinder; and

 a needle valve adapted to intermittently engage against
an inner surface of said piston, said piston and needle
valve defining therebetween

 a pressure chamber adapted to receive pressurized
product, via said port, from said aerosol can, said
pressurized product moving said piston and needle valve away
from said port;

 first coil spring , once differential pressure between
said port and said pressure chamber has decreased, to urge
said needle valve away from said piston, thereby venting
said pressure chamber via said nozzle to ambient air for a
predetermined injection time interval, and

second coil spring, once differential pressure between said pressure chamber and ambient air has decreased, to urge said piston against said needle valve for a predetermined stop time interval;

wherein, by appropriate selection of a spring constant of said second coil spring, a ratio of an injection time to a stop time is set to 0.1 to 2.0, when a valve is opened, in order to obtain a sufficient yet not excessive cooling and/or massage effect on the skin,

wherein the product contains 0.1 to 5% by weight of a compressed gas in an aerosol composition.